

Ontologies for Materials-Databases Interoperability (OMDI2021)

Tuesday, Oct 5

8:50 - 9:00 - *Logging in*

9:00 - 9:05 - *Opening and welcome*

Ontologies and their place in open science (chair: Rickard Armiento)

9:05 - 9:45 - **Peter Murray-Rust**

9:55 - 10:35 - **Emanuele Ghedini**

10:45 - 11:00 - *Coffee*

11:00 - 11:40 - **Session discussion**

11:40 - 11:50 - *Short break*

11:50 - 12:30 - **Session discussion continued**

Lunch - *Online meeting active for digital lunch together*

Ontologies for data exchange (chair: David Cebon)

14:00 - 14:20 - **Elsa Olivetti**

14:25 - 14:45 - **Luca Ghiringhelli**

14:50 - 15:10 - **Patrick Lambrix**

Lessons learned for developing ontologies

15:15 - 16:00 - **Session discussion**

16:00 - 16:20 - *Coffee*

Ontologies for data exchange II (chair: Anthony Scemama)

16:20 - 16:40 - **Gian-Marco Rignanese**

The OPTIMADE REST API for Querying Materials Databases: Challenges and Opportunities

16:45 - 17:05 - **Cormac Toher**

17:10 - 17:20 - *Short break*

17:20 - 17:40 - **Ellad Tadmor**

17:40 - 18:30 - **Session discussion**

18:30 - 19:30 - **Poster session**

Wednesday, Oct 6

8:55 - 9:00 - *Welcome*

Ontologies in materials science (*chair: Matthias Scheffler*)

9:00 - 9:20 - **James Hester**

9:25 - 9:45 - **Toshihiro Ashino**

9:50 - 10:40 - **Session discussion**

10:40 - 11:00 - *Coffee*

Ontologies in materials science II (*chair: Gareth Conduit*)

11:00 - 11:20 - **Saulius Gražulis**

11:25 - 11:45 - **Casper W. Andersen**

11:50 - 12:40 - **Session discussion**

Lunch - *Online meeting active for digital lunch together*

Ontologies for materials properties (*chair: Nicola Marzari*)

14:00 - 14:20 - **Steve Collins**

14:25 - 14:45 - **Giovanni Pizzi**

14:50 - 15:10 - **Huanyu Li**

15:15 - 16:05 - **Session discussion**

16:05 - 16:20 - *Coffee*

Ontologies for materials properties II (*chair: Stefano Curtarolo*)

16:20 - 16:40 - **Zachary Trautt**

16:45 - 17:05 - **Donny Winston**

The Materials Research Data Alliance (MaRDA) Data Dictionaries Working Group: A Progress Report

17:10 - 17:20 - *Short break*

17:20 - 17:40 - **Matthew Horton**

17:45 - 18:30 - **Session discussion**

Dinner - *Dinner for in-person participants*

Thursday, Oct 7

8:55 - 9:00 - *Welcome*

Ontologies for data integration (chair: Sara Bonella)

9:00 - 9:20 - **Davide Di Stefano**

9:25 - 9:45 - **Mina Abd Nikooie Pour**

A First Step towards Extending the Materials Design Ontology

9:50 - 10:40 - **Session discussion**

10:40 - 11:00 - *Coffee*

Ontologies for data integration II (chair: Luca Ghiringhelli)

11:00 - 11:20 - **Evgeny Blokhin**

Tackling the OWL2 complexity using the Python interface to the FaCT++ reasoner

11:25 - 11:45 - **Thomas Hagelien**

11:50 - 12:40 - **Session discussion**

Lunch - *Online meeting active for digital lunch together*

Ontology use in applications (chair: Gerhard Goldbeck)

14:00 - 14:20 - **Olga Wodo**

14:25 - 14:45 - **Gareth Conduit**

Ontologies for machine learning driven materials design

14:50 - 15:35 - **Session discussion**

15:35 - 16:00 - *Coffee*

16:00 - 16:20 - **Chris Mungall**

16:25 - 18:00 - **Synopsis, outlook, and goodbye**